

Figure 1

2-D Pooling of Transcription Facto (8 X 8) r Binding Sites

7	6	()	4	ယ	2		9 00l#
₩	USB	PR2	ROL	ERE	90C	Em1a	9
E1RE	USC	CE1	PF1	PRbox	GH3D1	ABRE1	10
СA	USD	H-box1	AT-com	нвр-1а	GH3D3	ABREa	1
napA	DR5	H-box2	AG	A	.	P-box	12
HaG3.75	PCF	Lox1	AP3	Bz1	GT-1	Z2Z3	13
tan antan 1919 and a tanàn kaominina dia kaominina dia mpikambana amin'ny faritr'i Arabana ao amin'ny faritr'i	PAL1	PR-2d	TGAC	CHS	TCA	As-2	14
P-box2	myb26	ROL6	CAGT	Boxll	C/DRE	As-1	15
TGAC2	GARE	USA	DOF	GT-2	HSE	Ocs	16
	E1RE CA napA HaG3.75 HaG3.111 P-box2	USC USD DR5 PCF PAL1 myb26 E1RE CA napA HaG3.75 HaG3.111 P-box2	PR2 CE1 H-box1 H-box2 Lox1 PR-2d ROL6 USB USC USD DR5 PCF PAL1 myb26 E8 E1RE CA napA HaG3.75 HaG3.111 P-box2	ROL PF1 AT-com AG AP3 TGAC CAGT PR2 CE1 H-box1 H-box2 Lox1 PR-2d ROL6 USB USC USD DR5 PCF PAL1 myb26 E8 E1RE CA napA HaG3.75 HaG3.111 P-box2	ERE PRbox HBP-1a A1 Bz1 CHS BoxII ROL PF1 AT-com AG AP3 TGAC CAGT PR2 CE1 H-box1 H-box2 Lox1 PR-2d ROL6 USB USC USD DR5 PCF PAL1 myb26 E8 E1RE CA napA HaG3.75 HaG3.111 P-box2	GCC GH3D1 GH3D3 P3 GT-1 TCA C/DRE ERE PRbox HBP-1a A1 Bz1 CHS BoxII ROL PF1 AT-com AG AP3 TGAC CAGT PR2 CE1 H-box1 H-box2 Lox1 PR-2d ROL6 USB USC USD DR5 PCF PAL1 myb26 E8 E1RE CA napA HaG3.75 HaG3.111 P-box2	Em1a ABRE1 ABREA P-box Z2Z3 As-2 As-1 GCC GH3D1 GH3D3 P3 GT-1 TCA C/DRE ERE PRbox HBP-1a A1 Bz1 CHS BoxII ROL PF1 AT-com AG AP3 TGAC CAGT PR2 CE1 H-box1 H-box2 Lox1 PR-2d ROL6 USB USC USD DR5 PCF PAL1 myb26 E8 E1RE CA napA HaG3.75 HaG3.111 P-box2

Strong Binding Activities in Maize Nuclear Extracts

	9	10	11	12	13	14	15	16
	Em1a	ABRE1	ABREa	P-box	Z2Z3	As-2	ÅS-1	830
2	GCC	GH3D1	GH3D3	P3	GT-1	ТСА	C/DRE	HSE
ω	ERE	PRbox	HBP-1a	Α1	Bz1	CHS	Boxll	@T.22
4	ROL C	PF1	AT-com	AG	AP3	TGAC	CAGT	DOF
()	PR2	CE1	H-box1	H-box2	Lox1	PR-2d	ROL6	USA
6	USB	USC	USD	DR5	PCF	PAL1	myb26	GARE
7	₩.	E1RE	CA	napA	HaG3.75	HaG3.111	P-box2	TGAC2
∞	SP20+6	MSA	DRET	DRE2	CGF1	ltp1D1	ENBP1	MRE

Transient Assay for Multimers of Transcription Factor Binding Sites

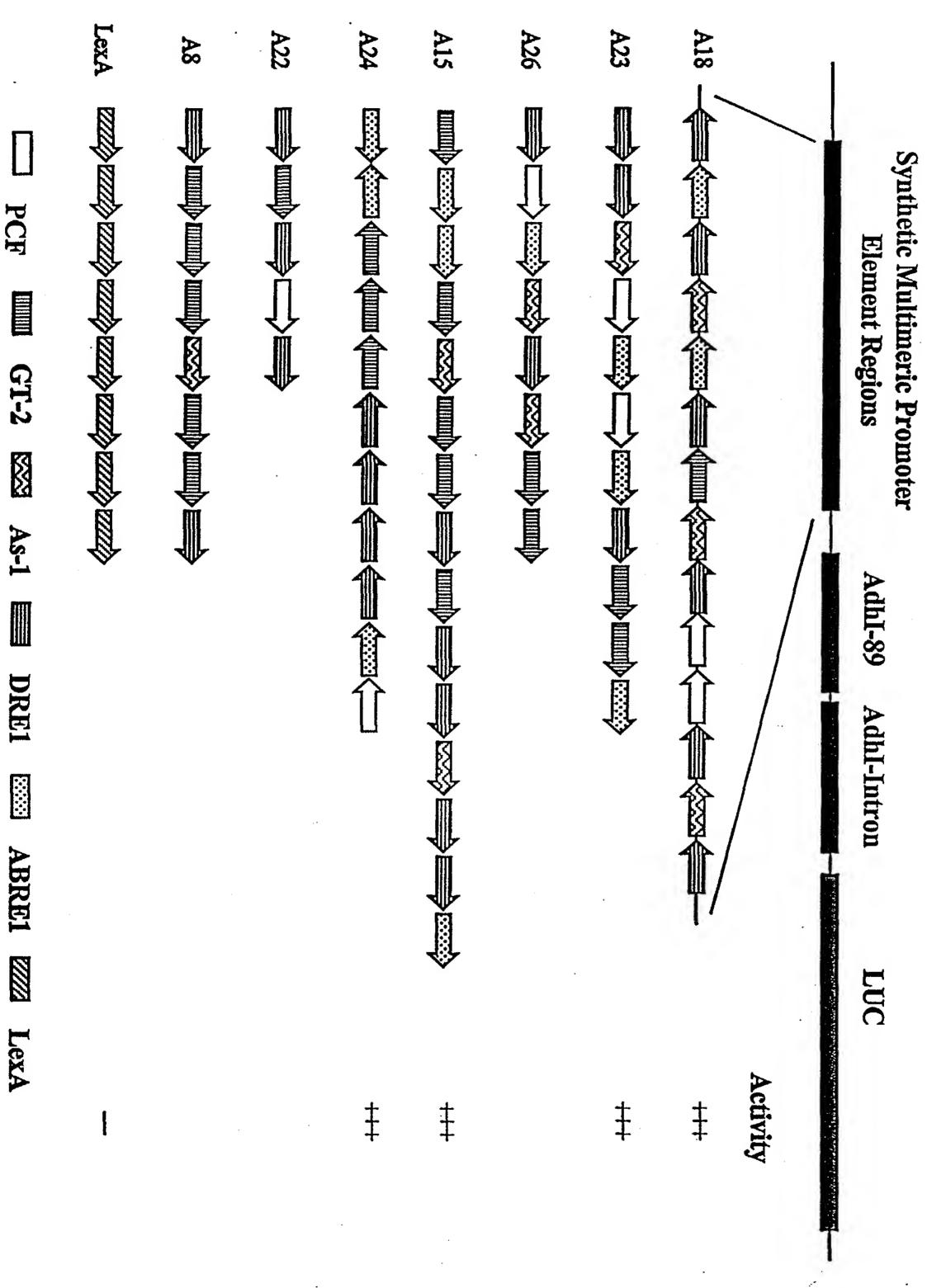


FIGURE 4

Transient Assay for Multimers of Transcription Factor Binding Sites

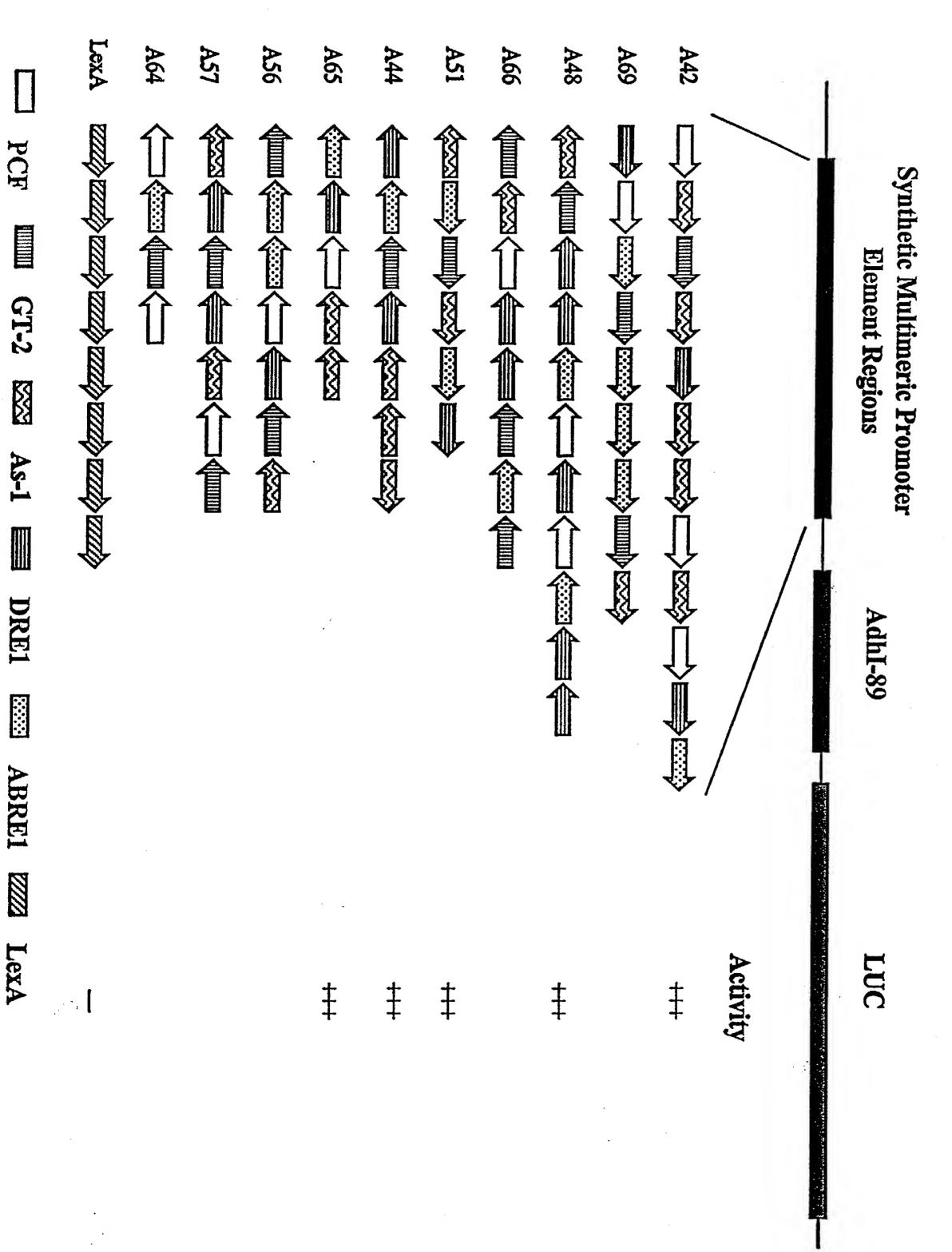
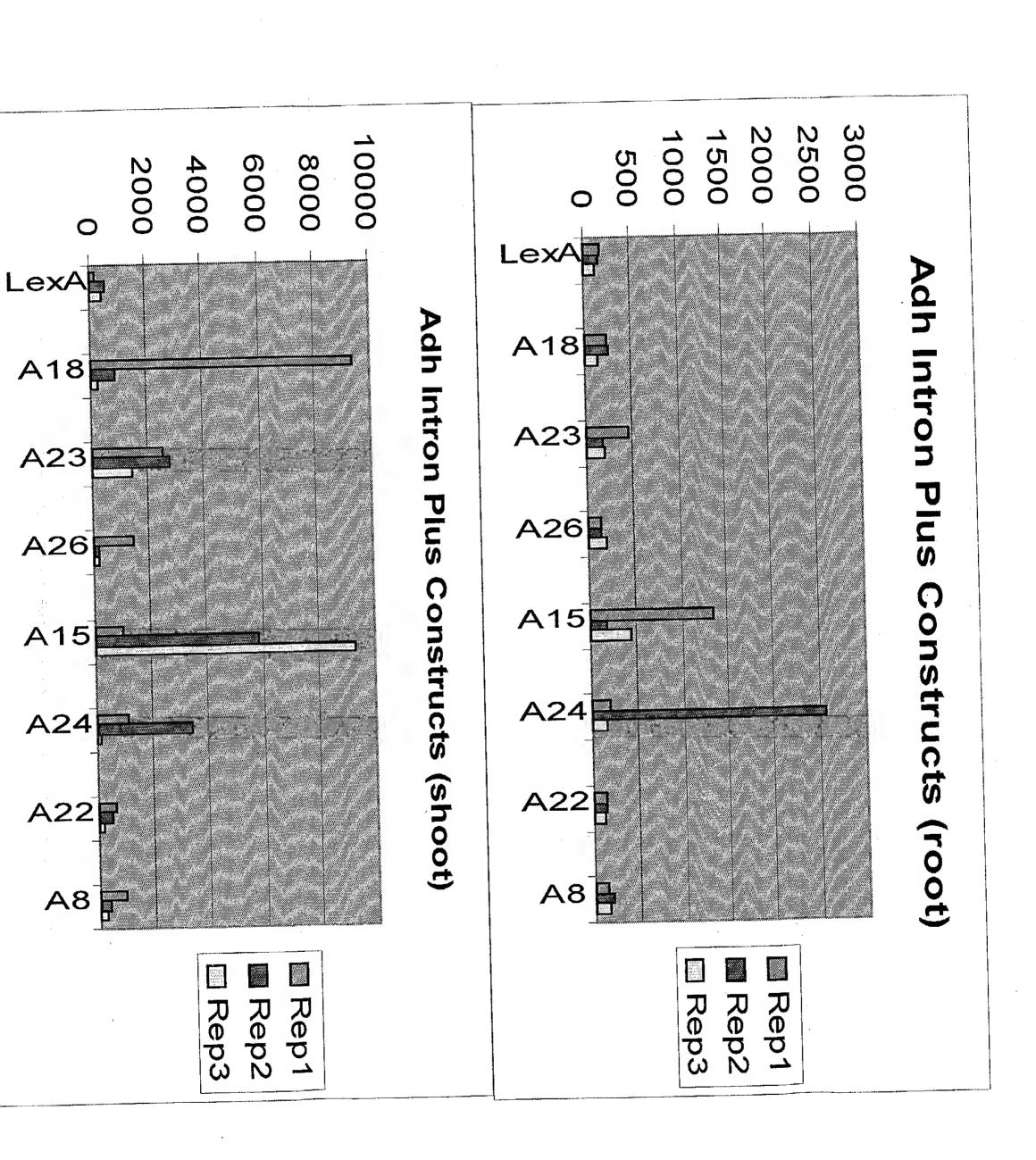
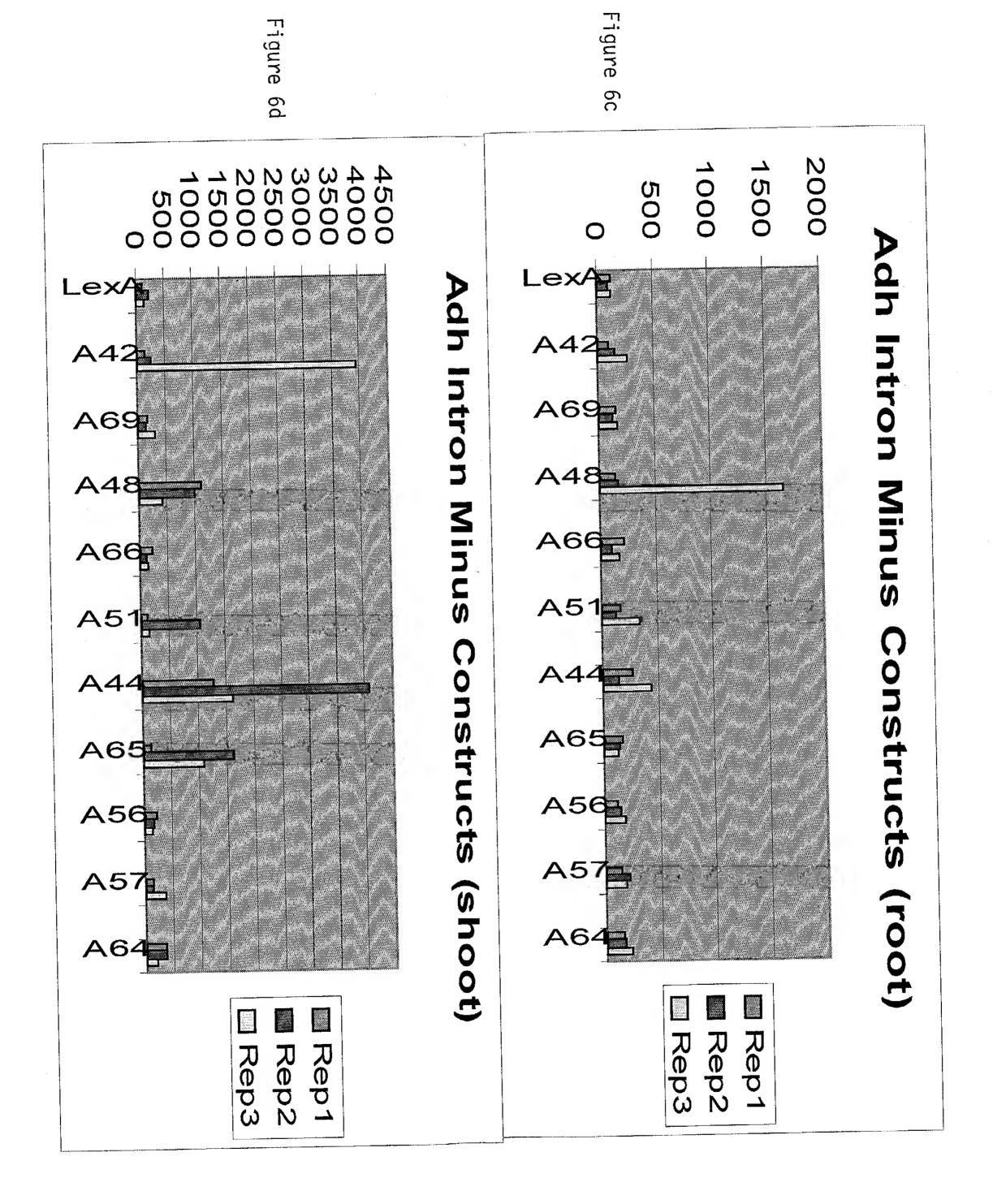


FIGURE 5

Figure 6b





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A15 (PHP14147)

413bp

GT-2	ABRE1
TAGGTTAATTTATTGGGCGGTAATTAT	AGCTTCGAGAAGAACCGAGACGTGGCGGGCTAG
ABRE1	GT-2
CTTCGAGAAGAACCGAGACGTGGCGG	CTAGCTAGGTTAATTATTGGCGGGTAATTATAG
AS-1	GT-2
CTCCACTGACGTAAGGGATGACGCACA	ATTAGCTAGGTTAATTATTGGCGATAATTATAG
GT-2	DRE1
<u>CTAGGTTAATTATTGGCGGTAATTATA</u>	AGCATATCATACCGACATCAGTTTAGCTAGGTTA
GT-2	DRE1 DRE1
ATTATTGGCGGTAATTATAGCATATCA	TACCGACATCAGTTTAGCATATCATACCGACAT
AS-1	DRE1
CAGTTTAGCTCCACTGACGTAAGGGAT	GACGCACAAT <u>TAGC</u> ATATCATACCGACATCAGT
DRE1	ABRE1
TTAGCATATCATACCGACATCAGTTTA	AGCTTCGAGAAGAACCGAGACGTGGCG

DRE1	AF	RE1
GCTAAACTGATGTCG	STATGATATGCTAGCCCGCCACGTC	CTCGGTTCTTCTCGAAGCTAAACTGA
DRE1	AS-1	ABRE1
TGTCGGTATGATATG	CTAATTGTGCGTCATCCCTTACGTC	CAGTGGAGCTAGCCCGCCACGTCTCG
	DRE1	GT-2
GTTCTTCTCGAAGCTA	AAACTGATGTCGGTATGATATGCTA	TAATTACCGCCAATAATTAACCTAG
AS-1	<u> </u>	DRE1
CTAATTGTGCGTCAT	CCTTACGTCAGTGGAGCTAAACTC	SATGTCGGTAGATATGCTAATACGGG
PCF	PCF	·
CCCACCTACGGGCCCA	ACCTCGGCTAATACGGGCCCACCTA	ACGGGCCCACCTCGGCTAAACTGATG
DRE1	AS-1	DRE1
TCGGTATGATATGCTA	AATTGTGCGTCATCCCTTACGTCAC	TGGAGCTAAACTGATGTCGGTATGA
TA		

DRE1	DRE1	AS-1
TAGCATATCATACCGACATCAGTTTAGCA	ATATCATACCGACATCAG'	TT <u>TAGC</u> TCCACTGACGTA
	PCF1	ABRE1
GGGATGACGCACAAT <u>TAGC</u> CGAGGTGGGG	CCCGTAGGTGGGCCCGTA'	TTAGCTTCGAGAAGAACCC
PCF1	L	ABRE1
AGACGTGGCGGGCTAGCCGAGGTGGGCCC	CGTAGGTGGGCCCGTATT	AGCTTCGAGAAGAACTGAG
DRE1		GT-2
ACGTGGCGGCCTAGCATATCATACCGACA	ATCAGTTTAGCTAGGTTA	ATTATTGGCGGTAATTA <u>T</u>
GT-2	ABRE1	
GCTAGGTTAATTATTGGCGGTAATTATAC	<u>3C</u> TTCGAGAAGAACCGAG	GACGTGGC

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ABRE1	ABRE1	GT-2
TAGCTTCGAGAAGACGTGGCGGCC	GCCACGTCTCGGTTCTTCTCGA	AAGCTATAATTACCGCCAA
	GT-2	GT-2
TAATTAACCTAGCTATAATTACCGC	CAATAATTAACCTAGCTATAAT	TTACCGCCAATAATTAAC
DRE1	DRE1	DRE1
TAGCTAAACTGATGTCGGTATGATA	TGCTAAACTGATGTCGGTATG	ATAT <u>GCTA</u> AACTGATGTCC
DRE1		ABRE1
GTATGATATGCTAAACTGATGTCGG	TATGATATGCTAGCCCGCCACC	GTCTCGGTTCTTCTCGAA

PCF CTAATACGGGCCCACCTA

2	4	
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PCF		AS-1
CGAGGTGGGCCCGTAGGTG	GGCCCGTATTAGCTCCACTGA	CGTAAGGGATGACGCACAATTAGCT
GT-2	AS-1	
AGGTTAATTATTGGCGGTA	ATTATAGCTCCACTGACGTAA	GGGATGACGCACAATTAGCATATCA
DRE1	AS-1	AS-1
TACCGACATCAGTTTAGCT	CCACTGACGTAAGGGATGACG	CACAAT <u>TAGC</u> TCCACTGACGTAAGG
	PCF	AS-1
GATGACGCACAATTAGCCG	AGGTGGGCCCGTAGGTGGGCC	CGTATTCCACTGACGTAAGGGATGA
	PCF	DRE1
CGCACAATTAGCCGAGGTG	GGCCCGAGGTGGGCCCGTATT	AGCATATCATACCGACATCAGTTTA
ABRE1		

A44 (PHP14152)

198bp

DRE1

ABRE1

GTC

- TTGTGCGTCATCCCTTACGTCAGTGGAGTAATTACCGCCAATAATTAACCTAGCTAAACTGATGT DRE1 ABRE1 DRE1 ${\tt CGGTATGATATGCTAAACTGATGTCGGTATGATATGCTAGCCCGCCACGTCTCGGTTCTTCTCGA}$ PCF DRE1
- AGCTAATACGGGCCCACCTACGGGCCCACCTCGGCTAAACTGATGTCGGTATGATATGCTAATAC PCF ABRE1
- GGGCCCACCTACGGGCCCACCTCGGCTAGCCCGCCACGTCTCGGTTCTTCTCGAAGCTAAACTGA DRE1 DRE1
- TGTCGGTATGATATGCTAAACTGATGTCGGTATGATATGCTA

A51 (PHP14154)

157bp

AS-1

ABRE1

 ${\tt ATTATTGGCGGTAATTA} \underline{{\tt TAGC}} {\tt TCCACTGACGTAAG} \underline{{\tt AGC}} {\tt TTCGAGAAGAACCGAGACGTGGCGGGC} \\ {\tt DRE1}$

TAGCATATCATACCGACATCAGTTTAG